

CORROSION-RESISTANT MEMBER

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Abstract of JP11157916

PROBLEM TO BE SOLVED: To provide a corrosion-resistant member having high corrosion resistance, especially to a chlorine-based corrosive gas and a chlorine based plasma and used as an internal wall material, a jig, etc., in the interior of a plasma treating device or a plasma processing device for producing a semiconductor or for a liquid crystal or a discharge wall of a discharge tube, a lamp, etc., such as a metal halide lamp.

SOLUTION: A site exposed to a chlorine-based corrosive gas such as BCl₃ or Cl₂ or its plasma is composed of a sintered product or the like of a group 3a metal of the periodic table such as Y, La, Ce, Nd or Dy and a compound oxide containing Al and/or Si, e.g. 3Y₂O₃.5Al₂O₃, 2Y₂O₃.Al₂O₃, Y₂O₃.Al₂O₃, a disilicate or a monosilicate and the total amount of impurity metals other than the metals forming the compound oxide in the site is controlled to <=0.1 wt.%.

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